

DEPARTMENT OF THE ARMY  
REGIONAL GENERAL PERMIT NUMBER 3  
FOR ACTIVITIES IN THE SUISUN MARSH  
(File Number: 24215N)

The District Engineer, San Francisco District, U. S. Army Corps of Engineers (Corps), hereby grants this Department of the Army Regional General Permit for work activities and discharges of dredged or fill material into waters of the United States described below, pursuant to Section 10 of the Rivers and Harbors Act of 1899 (22 U.S.C. 403), and Section 404 of the Clean Water Act (33 U.S.C. 1344).

**1. Project Description:** The California Department of Fish and Game (CDFG) and the landowners represented by the Suisun Resource Conservation District (SRCD) are authorized to work and place fill material in areas subject to Corps jurisdiction while completing the activities described below within the Suisun Marsh Primary Management Area (sheet 2) in Solano County California.

The CDFG is responsible for ensuring that all authorized work done by its personnel or on its land is done in accordance with the terms and conditions of this permit. Any landowner working under this permit is responsible for ensuring that all work they or their contractors undertake is in accordance with the terms and conditions of this permit. The SRCD is responsible for providing the required reports and accurate advice to the landowners. However, the Corps is the authority on determining if an activity is authorized by this permit.

The following work activities and fill discharges are authorized. Authorized work must be in accordance with the attached drawings labeled "Department of the Army Regional General Permit Number 3 for Activities in the Suisun Marsh" (sheets 1-17 of 17).

Work in interior ditches-

1) Excavation from existing primary or secondary ditches and excavation to create new primary or secondary ditches. A primary ditch has a least one direct hydrologic connection (often through a water control structure) to either a bay or a slough. Typically primary ditches are 4 to 4 1/2 feet deep trapezoids which are 12 to 20 feet wide at the surface and have a 2:1 side slope. Secondary ditches do not have a direct hydrologic connection to a bay or a slough. Secondary ditches are typically also trapezoidal, 3 to 3 1/2 feet deep and 6 to 10 feet wide with 2:1 side slopes.

Material excavated from these ditches may be sidecast and left adjacent to the ditch for up to one month, then must be used for an authorized activity (e.g. levee maintenance or grading) or removed to an area outside of Corps jurisdiction (i.e. crown of a levee).

Size of Individual Ownership (acres)	Annual Excavation Limit (cys)
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Under 50	1,000
50 to 249	2,000
250 to 499	3,000
500 to 749	4,000
750 to 999	5,000
1,000 & over	6,000

2) Excavation from existing spreader ditches and creation of new spreader ditches. Material from spreader ditches may be sidecast adjacent to ditch. Sidecasted material shall not be more than 12 inches deep. Spreader ditches are 'V' shaped ditches upto 24 inches deep. The cumulative length of new spreader ditches that a landowner may create is based on the sliding scale in the table below.

Size of Individual Ownership (acres)	Annual Excavation Limit (linear feet)
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Under 50	2,000
50 to 249	6,000
250 to 499	10,000
500 to 749	14,000
750 to 999	18,000
1,000 & over	20,000

3) Replacement of Rip-rap. Each ownership may place additional rip-rap on the slopes of interior ditches where rock has been washed away. Rip-rap shall not be placed directly on emergent vegetation (e.g. tules). Emergent vegetation shall not be uprooted during the placement of rip-rap, nor shall it be displaced by rip-rap. See condition 15 for a description of suitable material.

#### Work on Levees

1) Levee Repair. Each ownership may place suitable material (see Condition 15) on the crown or sides of interior levees and the crown or interior side (landward side) of exterior levees. The amount of material each landowner is authorized to place is dependent on the size of the ownership in accordance with the table below.

Individual Ownership (acres)	Exterior Levee (cubic yards annually)	Interior Levee (cubic yards annually)
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Under 50	1,000	1,000
50 to 249	2,000	2,000
250 to 499	3,000	3,000
500 to 749	4,000	4,000
750 to 999	5,000	5,000
1,000 & Over	6,000	6,000

2) Coring of Levees. Material excavated from the trench of a cored levee shall be temporarily placed on the levee crown then used to backfill the trench. All material shall remain on the crown of the levee.

3) Road Maintenance. Each ownership may place 5,000 cubic yards of suitable material annually on existing roads. Condition 15 describes suitable materials.

4) Replacement of Rip-rap. Each ownership may place additional rip-rap on the tidal side of exterior levees where rock has been washed away or has subsided. Rip-rap shall not be placed directly on emergent vegetation (tules). Emergent vegetation shall not be uprooted during the placement of rip-rap and emergent vegetation shall not be displaced by rip-rap. See special condition 15 for a description of suitable material.

### Work in Managed Wetlands

1) Grading. Ownerships may grade managed wetlands to obtain material for levee maintenance or to increase wetland areas by filling areas which have subsided. The amount of material a landowner may grade is dependent on the size of the ownership, in accordance with the table below.

Individual Ownership Ownership (Acres)	Annual Grading Limitation (Cubic Yards)
under 50	4,000
50 to 249	8,000
250 to 499	12,000
500 to 749	16,000
750 to 999	20,000
1,000 & Over	24,000

2) Discing. Discing of managed wetlands may be performed to promote growth of vegetation or to reduce mosquito habitat.

3) Installation of Permanent and Portable Pumps and Pump Platforms. Pump platforms shall be the minimum size necessary to hold the pump.

4) Creation of Waterfowl Nesting Islands and Habitat. Only earthen material from the managed wetlands of the same landownership may be used to create waterfowl nesting habitat or islands.

5) Replacement, Relocation or Installation of Duck Hunting Blinds. Each ownership may relocate or install 5 hunting blinds annually.

### Water Control Structures

1) Replacement, Installation and Maintenance of Water Control Structures. Replacement of a water control structure consists of trenching across a levee, removal of an existing water control structure, placement of the new water control structure and backfilling of the levee. Installation of a water control structure consists of trenching across a levee and placement of a new water control structure where there was not one previously. Maintenance of a water control structure could include repair and/or replacement of a gate, bulkhead, flashboard riser, stub or coupler (excavation of a levee is not considered maintenance activity under this permit). Any excess material should be used to backfill the trench or to maintain levees.

Fifty new exterior water control structures may be installed in the marsh annually. New or enlarged exterior water intake structures shall be screened in accordance with the CDFG's criteria unless the Corps determines that the structure would not adversely affect any endangered species and the Corps obtains concurrence with that determination from the National Marine Fisheries Service (NMFS) or US Fish and Wildlife Service (US FWS) as applicable. As part of the SRCD Proposed Work Report for new or enlarged water exterior intake water control structures the SRCD shall provide the following information:

- the volume of water required to flood the managed wetlands,
- the minimum size of the culvert required to flood the managed wetlands in 10 days,
- the vertical elevation of the water control structure and its local topography,
- the length, slope and material (i.e. plastic or metal) to be used,
- the daily and monthly tidal range at the project site,
- the elevation of the managed wetlands, and
- the water depth of the managed wetlands when fully flooded.

An on-site field inspection for protected plants shall be conducted by a qualified representative of the SRCD or CDFG for all water control structure replacements except when a head wall is present and for all installations of water control structures. The protected plants include:

- a. Soft Bird's Beak (*Cordylanthus mollis ssp. mollis*),
- b. Salt Marsh Bird's Beak (*Cordylanthus maritimus ssp. maritimus*),
- c. Hispid Bird's Beak (*Cordylanthus mollis ssp. hispidus*),
- d. Suisun Thistle (*Cirsium hydrophilum var. hydrophilum*),
- e. Delta Tule Pea (*Lathyrus jepsonii var. jepsonii*),
- f. Mason's lilaeopsis (*Lilaeopsis masonii*),
- g. Suisun Marsh Aster (*Aster lentus*),
- h. Alkali Milk-vetch (*Astragalus tener*),
- i. Heartscale (*Atriplex cordulata*),
- j. Brittscale (*Atriplex depressa*),
- k. Valley Spearscale (*Atriplex joaquiniana*).

If a protected plant is found during a survey it should be avoided, and a map showing the location of the plant shall be provided to the U.S. Army Corps of Engineers and US FWS no later than seven calendar days after the survey is completed. If a protected plant can not be avoided during the proposed work and it is not listed by the US FWS as a Federal Threatened or Endangered Species, it shall be carefully transplanted to the nearest suitable habitat by a qualified representative of SRCD or CDFG. If a Federally listed Threatened or Endangered Plant is found which can not be avoided during the proposed work, the qualified representative of SRCD or CDFG shall notify the USACE immediately so it can consult with the US FWS.

Water control structures may be installed or replaced only during low tides when there is the least chance of affecting fisheries.

2) Installation of Fish Screens on Exterior Water Control Structures. No more than 1,000 square feet of wetlands throughout the marsh per year shall be filled during installation of fish screens.

**2. Administration of Permit:** All authorized work must be verified in accordance with one of the following procedures. The Corps may add additional Special Conditions to the verifications if it determines the additional conditions are necessary to ensure the proposed work has minimal effects.

#### Routine Procedure

1) Landowners must fill out USACE Wetlands Maintenance Application and submit the report with legible maps showing location of proposed work to the SRCD.

2) SRCD must compile the information and submit monthly Proposed Work Reports to this office of the Corps of Engineers. The Proposed Work Reports are due on the 1st day of each month. When the 1st day falls on a weekend the report shall be due the following Monday.

3) The Corps will have 30 days to verify if the proposed work is authorized by this Regional Permit.

#### Alternative Procedure

1) Landowners must apply directly to this office of the Corps of Engineers, and provide a copy of the application to the SRCD.

2) The Corps will determine if the proposed work is compliance with this Regional Permit and respond to the applicant no later than 45 days after receiving a complete application.



Conditions:

1. The time limit for completing the work authorized ends on November 15, 2005.
2. All authorized work must be maintained in good condition and in conformance with the terms and conditions of this permit. Abandonment of the permitted activity does not relieve the landowner of this responsibility. If a structure authorized by this permit is to be abandoned, the landowner must contact this office of the Corps of Engineers. In this case restoration of the site may be required.
3. If any previously unknown historic or archeological remains are discovered while accomplishing the authorized work, the landowner must notify this office of the find. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the Nation Register of Historic Places.
4. The CDFG and/or SRCD shall keep this office informed of any changes in ownership in the Suisun Marsh.
5. All parties must comply with the conditions of the attached water quality certification/water quality waiver.
6. Landowners working under this authorization must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of this permit.
7. Work is not authorized within 100 feet of archeological site (CAL-SOL-13).
8. If cultural resources are discovered during the course of permitted work activities the permittee shall stop work in the vicinity of the find and immediately contact this office of the Corps of Engineers.
9. Authorized work may not be conducted in the areas shown on the attached California Clapper Rail Breeding Habitat Maps (sheets 10 to 14) between February 1 and August 31. Portions of club numbers 717, 715, 714/720, 707, 705, 703, 702, 533, 419, 220, 219, 213, 207, 205/223/225, 206, 133, and 124 are affected by this restriction.
10. The SRCD and the CDFG shall continue to identify and prioritize placement of water control structures which require fish screens in consultation with the Corps, NMFS and US FWS. The SRCD and CDFG shall seek funding to install screens at the highest priority sites.
11. Any suspected take of endangered species shall be immediately reported to the CDFG or the SRCD who shall immediately contact the US FWS or the NMFS. Any carcasses of salmon or other protected fish shall be frozen in whirl-pak bags and retained until specific instructions for disposal are obtained from the applicable Federal agency.
12. The SRCD shall notify the NMFS and this office of the starting and closing dates of duck hunting season annually at least one month prior to the start of duck hunting season. Landowners diverting water from the sloughs crosshatched on Sheet 15 shall use no more than 25% of the water control structure's diversion capacity from November 1 to the last day of duck hunting season. These landowners are prohibited from diverting water from these sloughs shown on Sheet 15 from February 21 to March 31. The purpose of these diversion restrictions is to protect migrating salmon.

Table for Determining Salmon  
Diversion Restrictions:

Inches of Water Going Through Pipe  
Diameter of Pipe 25% Open

12 inches	3 inches
18 inches	4 inches
24 inches	6 inches
30 inches	7 inches
36 inches	9 inches
48 inches	12 inches

13. Landowners diverting water from cross hatched sloughs shown on Sheet 16 shall use only 35% of the water control structures' intake capacity between April 1 and May 31. If during this time, two out of the three CDFG 20 millimeter trawl surveys sites (sites 606, 609 and 610) predict Delta Smelt densities greater than 20 Delta Smelt individuals per 10,000 cubic meters over a two week sampling period, all diversions from these sloughs shall use only 20% of the water control structures intake capacity. Survey trawls shall take place at least once every fourteen days between April 1 and May 31.

Table for Determining Delta Smelt Diversion Restrictions:

<u>Diameter of Pipe</u>	<u>Inches of Water Going Through Pipe</u>	
	<u>20% Open</u>	<u>35% Open</u>
12 inches	3 inches	5 inches
18 inches	4 inches	7 inches
24 inches	5 inches	8.5 inches
30 inches	6 inches	10.5 inches
36 inches	7 inches	13 inches
48 inches	10 inches	17 inches

14. While diversion restrictions are in place the SRCD and CDFG shall monitor gate closures. If an open gate is observed they shall immediately contact the owner and the gate shall be closed.

15. Landowners importing any material except for rock materials from outside of the Suisun Marsh must contact the Regional Water Control Board (RWQCB) to determine the need for and level of contaminant testing necessary before importation. Landowners must obtain the RWQCB's concurrence that imported material from outside of the Suisun Marsh is acceptable before its use.

Rock materials include rock rip-rap, gravel and broken concrete. Rip-rap material shall be either quarry rock or specially cast or concrete pieces free of reinforcing steel and other extraneous material and conforming to quality requirements for specific gravity, absorption, and durability by the California Department of Transportation or the U.S. Army Corps of Engineers. The material shall be generally spheroid-shaped. The overall thickness of the slope protection shall be no more than three feet measured perpendicular to the slope. Use of dirt, small concrete rubble, concrete pieces with exposed rebar, large and odd shaped pieces of concrete, and asphalt concrete is not authorized.

16. The proposed work reports must be submitted to the US Army Corps of Engineers, National Marine Fisheries Service, State Lands Commission and Regional Water Quality Control Board by the 1st day in each month. When the 1st day falls on a weekend the report would be due the following Monday.

17. The SRCD shall prepare an annual report that summarizes the amounts and locations of activities actually performed. This report shall be submitted to the US Army Corps of Engineers, US Environmental Protection Agency, NMFS, US FWS, State Lands Commission, and Regional Water Quality Control Board. This report must include an estimate of wetlands temporarily impacted and describe any additional minimization methods (i.e. replacing a metal pipe with PVC to lessen future maintenance needs).

18. If a proposed activity requires a permit from the San Francisco Bay Conservation and Development Commission (BCDC), the permit will not become effective until that permit is obtained, fully executed and returned to BCDC. Activities that require a BCDC permit in the Suisun Marsh are those activities which constitute a marsh development and that are not exempt from the need to obtain a BCDC permit under the Suisun Marsh Preservation Act, which includes maintenance, repair, or replacement that does not result in any addition to or expansion or enlargement of the object of the maintenance, repair, or replacement or that are not already included in the SRCD's component of the Suisun Marsh Local Protection Program, which includes each individual duck club's management plan.

Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
  - (X) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
  - (X) Section 404 of the Clean Water Act (33 U.S.C. 1344).
2. Limits of this authorization.
  - a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.
  - b. This permit does not grant any property rights or exclusive privileges.
  - c. This permit does not authorize any injury to the property or rights of others.
  - d. This permit does not authorize interference with any existing or proposed Federal project.
3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:
  - a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
  - b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
  - c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
  - d. Design or construction deficiencies associated with the permitted work.
  - e. Damage claims associated with any future modification, suspension, or revocation of this permit.
4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5.       Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

- a.       You fail to comply with the terms and conditions of this permit.
- b.       The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
- c.       Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

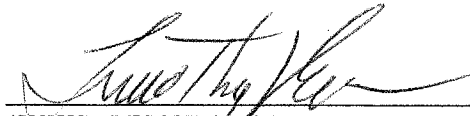
6.       Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as a permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

  
(CALIFORNIA DEPARTMENT OF FISH AND GAME)

4-20-00


(DATE)

  
(SUISUN RESOURCE CONSERVATION DISTRICT)

4-20-00

(DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

  
(DISTRICT ENGINEER)  
PETER T. GRASS  
LTC, EN  
COMMANDING

4-24-2000

(DATE)



Winston H. Hickox  
Secretary for  
Environmental  
Protection

**California Regional Water Quality Control Board**  
**San Francisco Bay Region**

Internet Address: <http://www.swrcb.ca.gov>  
1515 Clay Street, Suite 1400, Oakland, California 94612  
Phone (510) 622-2300 • FAX (510) 622-2460



Gray Davis  
Governor

March 7, 2000  
File No. 2128.03(SLB)  
Site No.#02-48-C0153  
WWDR-SRCD.DOC

Mr. Steven Chappell  
Suisun Resource Conservation District  
2544 Grizzly Island Road  
Suisun City, CA 94585

**Subject: WAIVER OF WASTE DISCHARGE REQUIREMENTS AND WATER  
QUALITY CERTIFICATION (Corps File #24215N) Suisun Resource  
Conservation District Regional General Permit, Suisun Marsh, Solano County**

Dear Mr. Chappell:

We reviewed the activities in connection with the proposed U.S. Army Corps of Engineers' Regional General Permit for the Suisun Marsh, Solano County. The proposed Regional General Permit will authorize the same types and amounts of activities that were covered under the expiring Regional General Permit.

The types of activities include: excavation from existing primary and secondary ditches and creation of new primary or secondary ditches; maintenance of existing spreader ditches and creation of new spreader ditches; replacement of rip-rap in ditches; repair of interior and exterior levees; coring of levees; maintenance of existing roads; replacement of rip-rap on existing sides of levees; grading and raising the elevation of managed wetlands; installation of permanent and portable pumps and pump platforms; creation of waterfowl nesting islands and habitat; relocation or installation of duck hunting blinds; replacement and maintenance of water control structures; installation of new interior or exterior water control structures; and installation of fish screens. The amount of each allowed activity will be strictly limited in the new proposed Regional General Permit. It is estimated that approximately 1.92 acres of wetlands will be temporarily impacted by the levee maintenance activities over the five-year length of the proposed permit.

You have applied jointly with the California Department of Fish and Game (DFG) to the U.S. Army Corps of Engineers for a Regional General Permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. 1344) and Section 10 of the Rivers and Harbors Act (3 U.S.C. 403).

You have applied jointly with DFG for a Clean Water Act Section 401 Water Quality Certification that the activities proposed to be permitted by the Regional General Permit will not violate State water quality standards. The application was considered complete on February 22, 2000. Pursuant



Mr. Steven Chappell

- 2 -

March 7, 2000

to Regional Board Resolution No. 87-053, Waste Discharge Requirements are waived as required by 33 CFR 325.2(b)(ii). The following conditions are associated with this waiver:

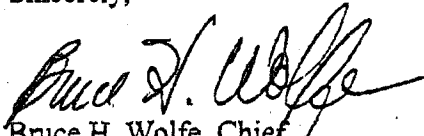
- 1) The discharge, or creation of a potential for discharge, of any material including fresh concrete, cement, silts, clay, soil or any other materials to waters of the State within the area covered by the Regional General Permit, except as expressly allowed herein or in the Permit, is prohibited;
- 2) The monthly Proposed Work Reports must be submitted to the Regional Board by the 1<sup>st</sup> day of each month; and,
- 3) An annual report that summarizes the amounts and locations of activities actually performed as authorized by the Regional General Permit during the previous calendar year must be submitted to the Regional Board and the U.S. Army Corps of Engineers no later than March 31 of the following year, starting in 2001. This report must include an estimate of the acreage of wetlands temporarily impacted, describe any new control measures used during the previous year to further minimize impacts to jurisdictional waters from permitted activities, and describe any new measures planned for the current year to further minimize these impacts.

Pursuant to Title 23, California Code of Regulations Section 3857, this action is equivalent to a waiver of water quality certification.

We anticipate no further action on this application. However, should new information come to our attention that indicates a water quality problem with these activities, the Regional Board may issue Waste Discharge Requirements.

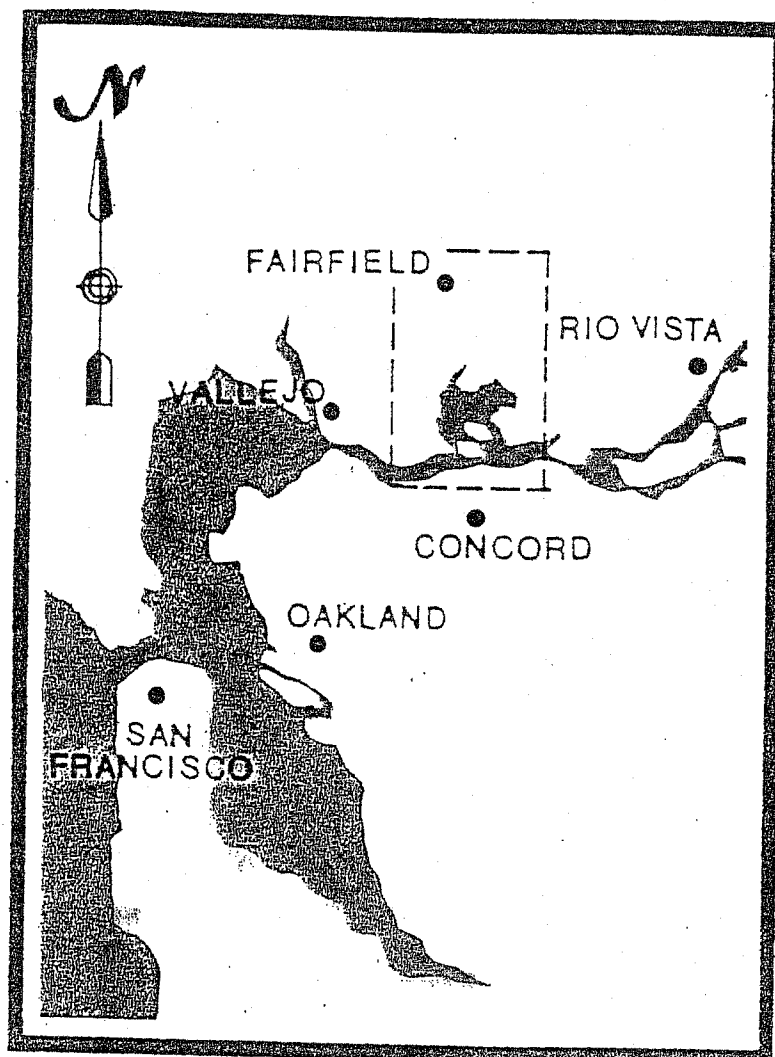
Should you have any questions, please contact Stephen Berger of my staff at (510) 622-2345 or email at [slb@rb2.swrcb.ca.gov](mailto:slb@rb2.swrcb.ca.gov).

Sincerely,

  
Bruce H. Wolfe, Chief  
Watershed Management Division

cc: Bill Campbell, SWRCB-DWQ  
Debra O'Leary, ACOE

Dennis Becker  
California Department of Fish and Game  
2748 Grizzly Island Road  
Suisun City, CA 94585



Sheet 1 of 17

Department of the Army  
Regional General Permit  
Number 3 for Activities  
in the Suisun Marsh  
(DA File # 24215N)

PURPOSE: CONDUCTING ANNUAL WETLANDS  
MAINTENANCE ACTIVITIES TO PROTECT  
AND ENHANCE SUISUN MARSH  
MANAGED WETLANDS.

DATUM: MLLW

PROPERTY OWNERS:

1. Suisun Resource Conservation District Private  
Landowners
2. California Department of Fish & Game

# VICINITY MAP

No Scale

SUISUN RESOURCE CONSERVATION DISTRICT  
2544 GRIZZLY ISLAND RD.  
SUISUN, CA 94585

CALIFORNIA DEPARTMENT OF FISH & GAME  
2548 GRIZZLY ISLAND RD.  
SUISUN, CA 94585

IN: SUISUN MARSH NEAR FAIRFIELD

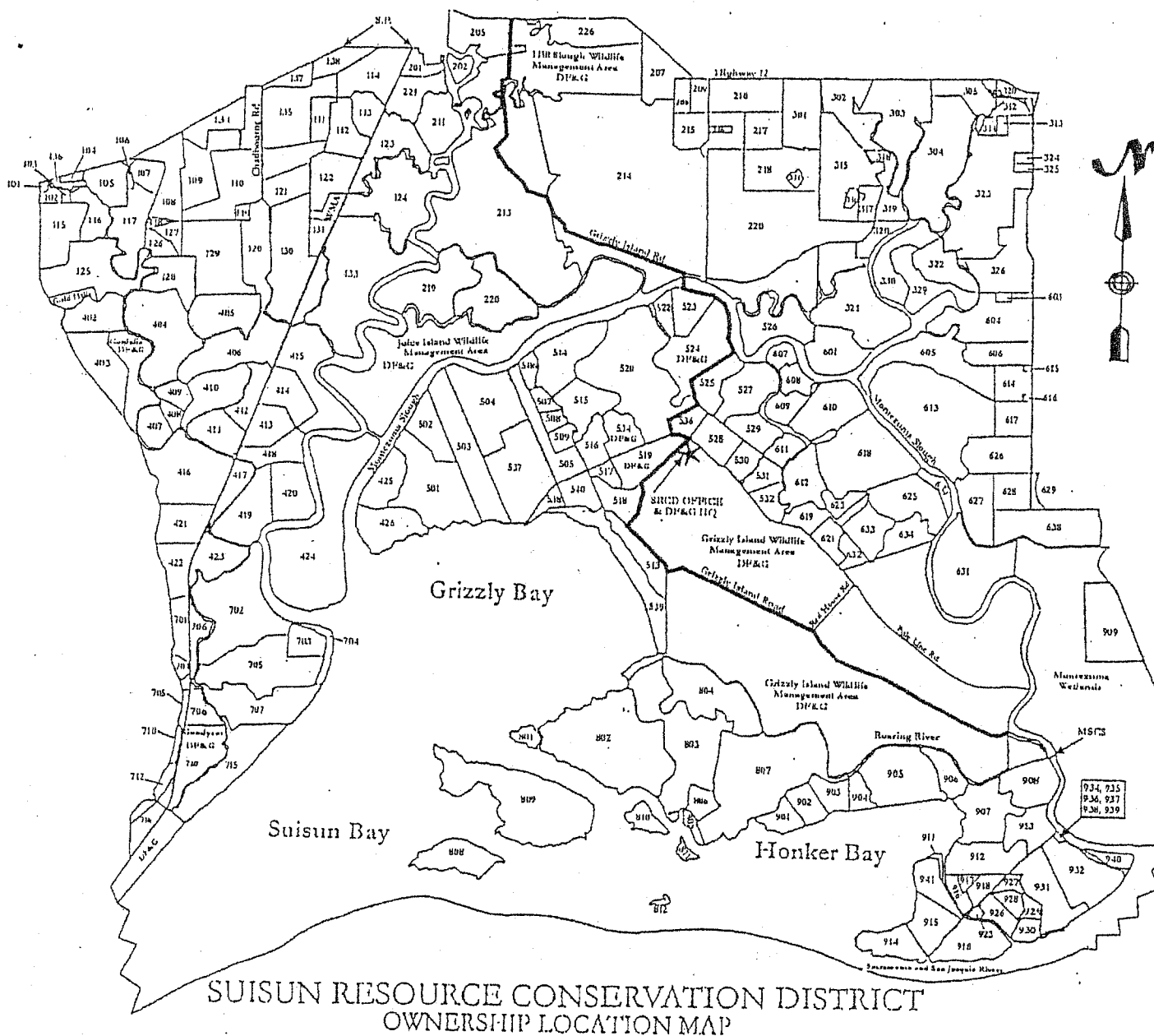
AT: INDIVIDUALLY OWNED STATE AND PRIVATE  
PROPERTIES

COUNTY OF: SOLANO STATE: CA

APPLICATION BY: 1) SUISUN RESOURCE  
CONSERVATION DISTRICT

2) CA. DEPT. FISH & GAME

SHEET OF DATE 5/18/99



Sheet 2 of 17

Department of the Army  
Regional General Permit  
Number 3 for Activities  
in the Suisun Marsh  
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PURPOSE: CONDUCTING ANNUAL WETLANDS  
MAINTENANCE ACTIVITIES TO PROTECT  
AND ENHANCE SUISUN MARSH  
MANAGED WETLANDS.

DATUM: MLLW

PROPERTY OWNERS:

1. Suisun Resource Conservation District Private  
Landowners
2. California Department of Fish & Game

VICINITY MAP

No Scale

SUISUN RESOURCE CONSERVATION DISTRICT  
2544 GRIZZLY ISLAND RD.  
SUISUN, CA 94585

CALIFORNIA DEPARTMENT OF FISH & GAME  
2548 GRIZZLY ISLAND RD.  
SUISUN, CA 94585

IN: SUISUN MARSH NEAR FAIRFIELD

AT: INDIVIDUALLY OWNED STATE AND PRIVATE  
PROPERTIES

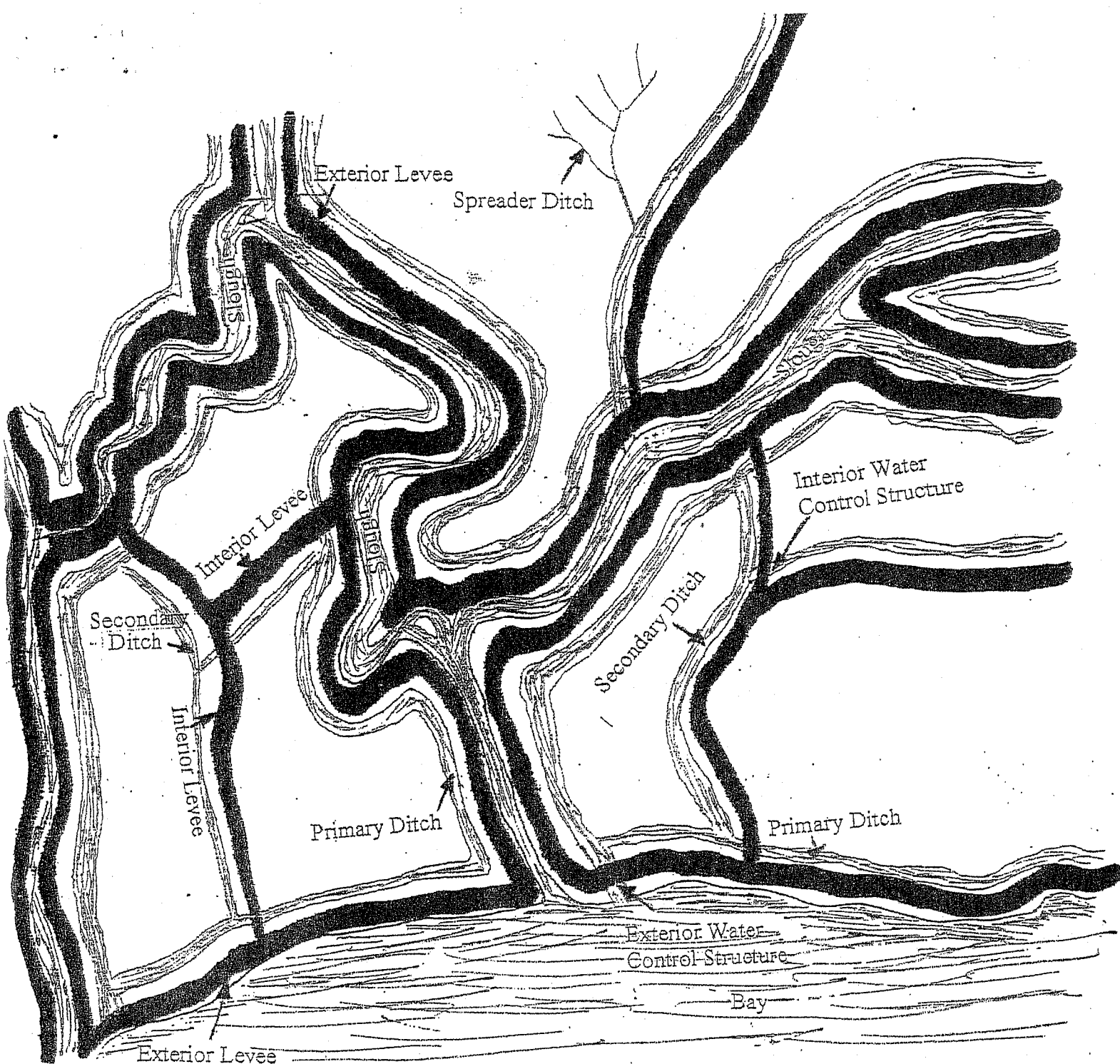
COUNTY OF: SOLANO STATE: CA

APPLICATION BY: 1) SUISUN RESOURCE  
CONSERVATION DISTRICT

2) CA. DEPT. FISH & GAME

SHEET OF DATE 5/18/99





# Schematic Islands in Suisun Marsh

Sheet 3 of 17

Department of the Army  
Regional General Permit  
Number 3 for Activities  
in the Suisun Marsh  
(DA File # 24215N)

PURPOSE: CONDUCTING ANNUAL WETLANDS  
MAINTENANCE ACTIVITIES TO PROTECT  
AND ENHANCE SUISUN MARSH  
MANAGED WETLANDS.

DATUM: MLLW

PROPERTY OWNERS:

1. Suisun Resource Conservation District Private Landowners
2. California Department of Fish & Game

## VICINITY MAP

No Scale

SUISUN RESOURCE CONSERVATION DISTRICT  
2544 GRIZZLY ISLAND RD.  
SUISUN, CA 94585

CALIFORNIA DEPARTMENT OF FISH & GAME  
2548 GRIZZLY ISLAND RD.  
SUISUN, CA 94585

IN: SUISUN MARSH NEAR FAIRFIELD

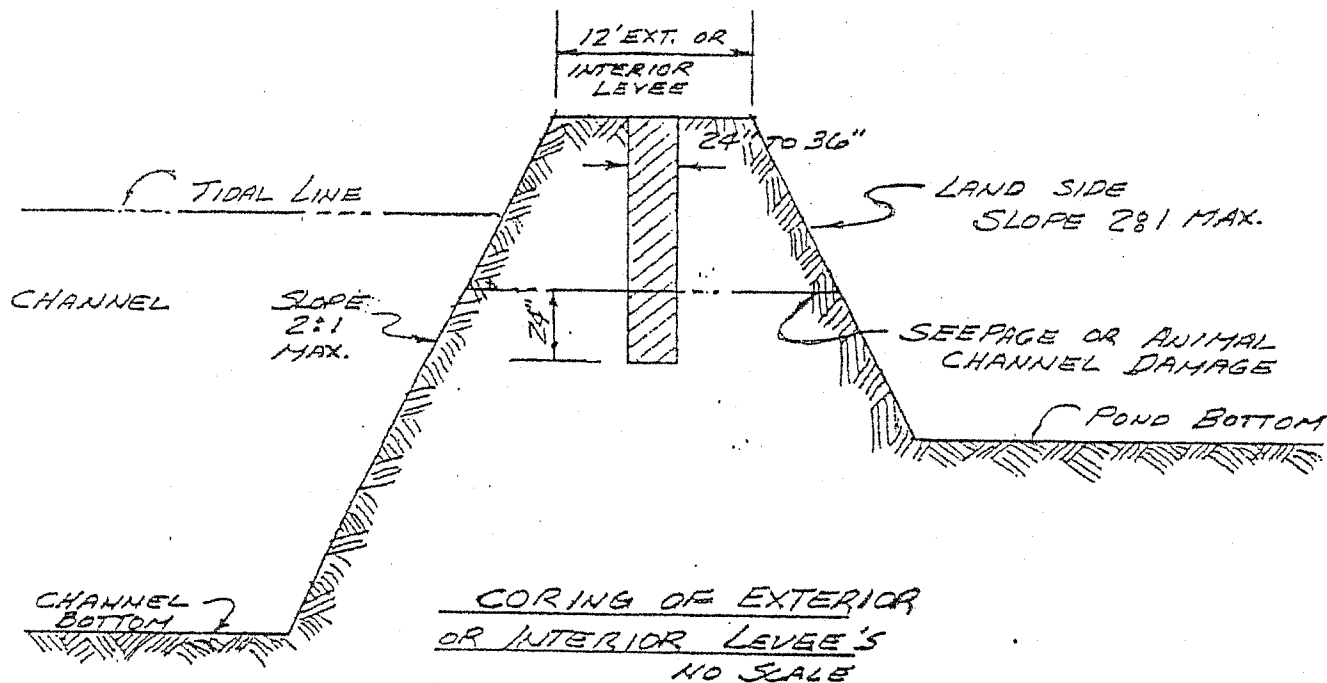
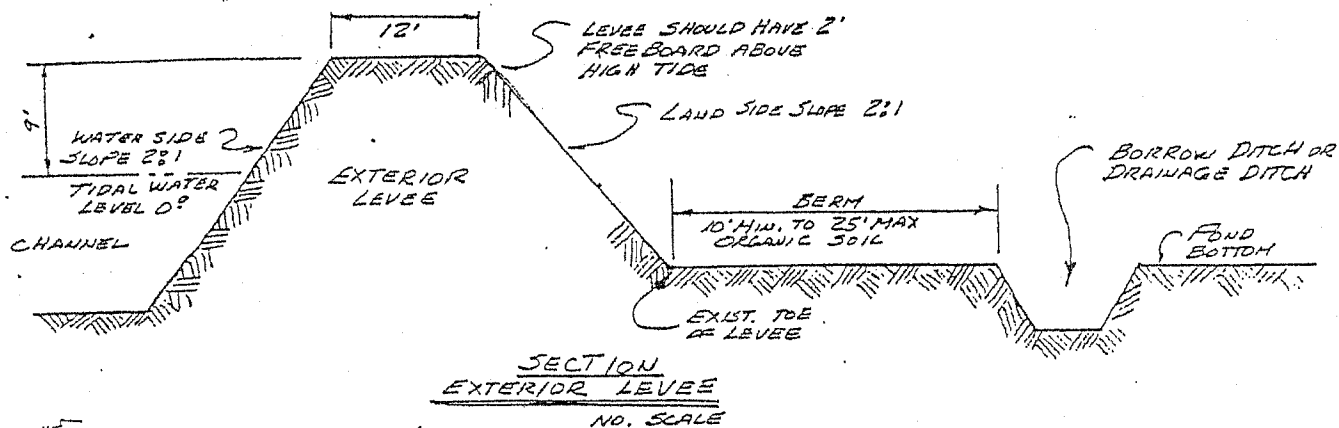
AT: INDIVIDUALLY OWNED STATE AND PRIVATE  
PROPERTIES

COUNTY OF: SOLANO STATE: CA

APPLICATION BY: 1) SUISUN RESOURCE  
CONSERVATION DISTRICT

2) CA. DEPT. FISH & GAME

SHEET OF DATE 5/18/99



Sheet 4 of 17

Department of the Army  
Regional General Permit  
Number 3 for Activities  
in the Suisun Marsh  
(DA File # 24215N)

PURPOSE: CONDUCTING ANNUAL WETLANDS  
MAINTENANCE ACTIVITIES TO PROTECT  
AND ENHANCE SUISUN MARSH  
MANAGED WETLANDS.

DATUM: MLLW

PROPERTY OWNERS:

1. Suisun Resource Conservation District Private Landowners
2. California Department of Fish & Game

### TYPICAL CROSS SECTIONS

No Scale

SUISUN RESOURCE CONSERVATION DISTRICT  
2544 GRIZZLY ISLAND RD.  
SUISUN, CA 94585

CALIFORNIA DEPARTMENT OF FISH & GAME  
2548 GRIZZLY ISLAND RD.  
SUISUN, CA 94585

IN: SUISUN MARSH NEAR FAIRFIELD

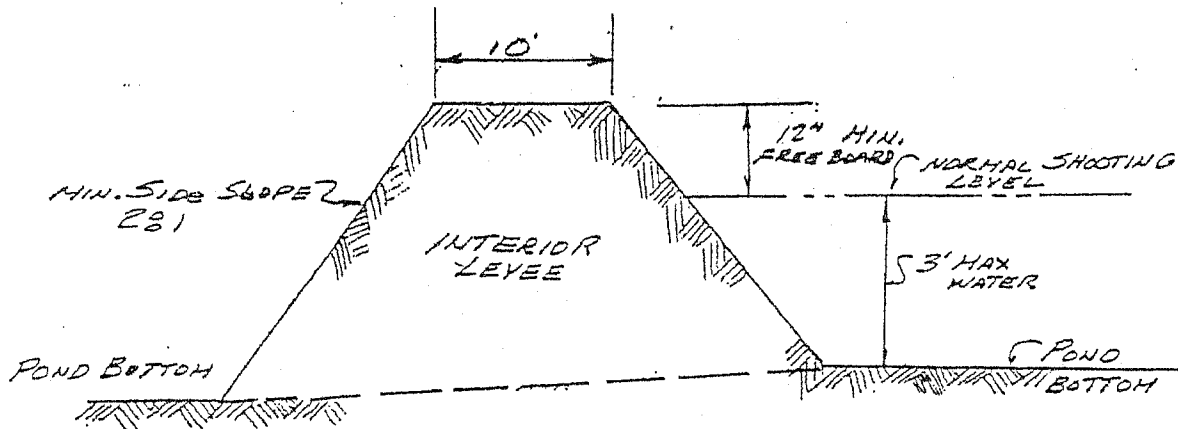
AT: INDIVIDUALLY OWNED STATE AND PRIVATE PROPERTIES

COUNTY OF: SOLANO STATE: CA

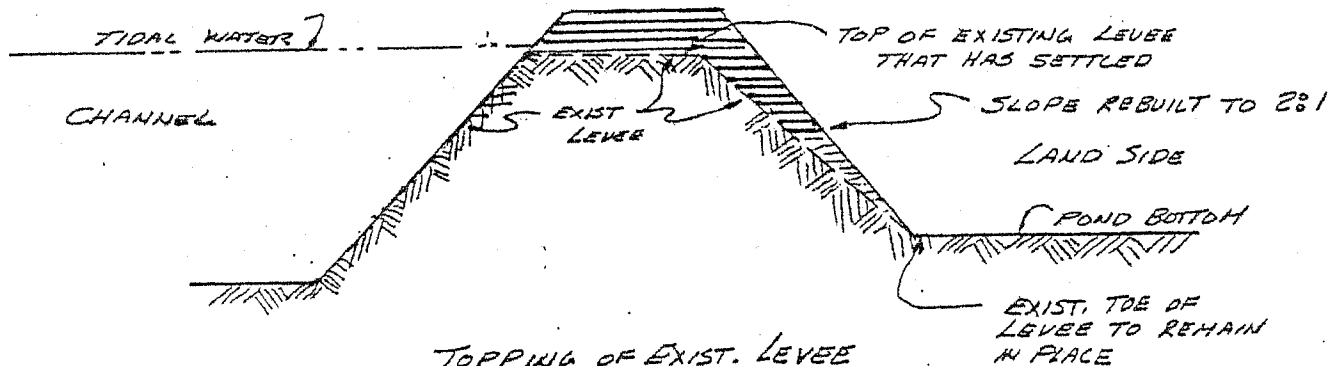
APPLICATION BY: 1) SUISUN RESOURCE CONSERVATION DISTRICT

2) CA. DEPT. FISH & GAME

SHEET OF DATE 5/18/99



SECTION  
INTERIOR LEVEE  
NO SCALE



TOPPING OF EXIST. LEVEE  
AND REPAIRING SIDE SLOPES  
NO SCALE  
WITH SETTLEMENT & EROSION

Sheet 5 of 17

Department of the Army  
Regional General Permit  
Number 3 for Activities  
in the Suisun Marsh  
(DA File # 24215N)

PURPOSE: CONDUCTING ANNUAL WETLANDS  
MAINTENANCE ACTIVITIES TO PROTECT  
AND ENHANCE SUISUN MARSH  
MANAGED WETLANDS.

DATUM: MLLW

PROPERTY OWNERS:

1. Suisun Resource Conservation District Private  
Landowners
2. California Department of Fish & Game

### TYPICAL CROSS SECTIONS

No Scale

SUISUN RESOURCE CONSERVATION DISTRICT  
2544 GRIZZLY ISLAND RD.  
SUISUN, CA 94585

CALIFORNIA DEPARTMENT OF FISH & GAME  
2548 GRIZZLY ISLAND RD.  
SUISUN, CA 94585

IN: SUISUN MARSH NEAR FAIRFIELD

AT: INDIVIDUALLY OWNED STATE AND PRIVATE  
PROPERTIES

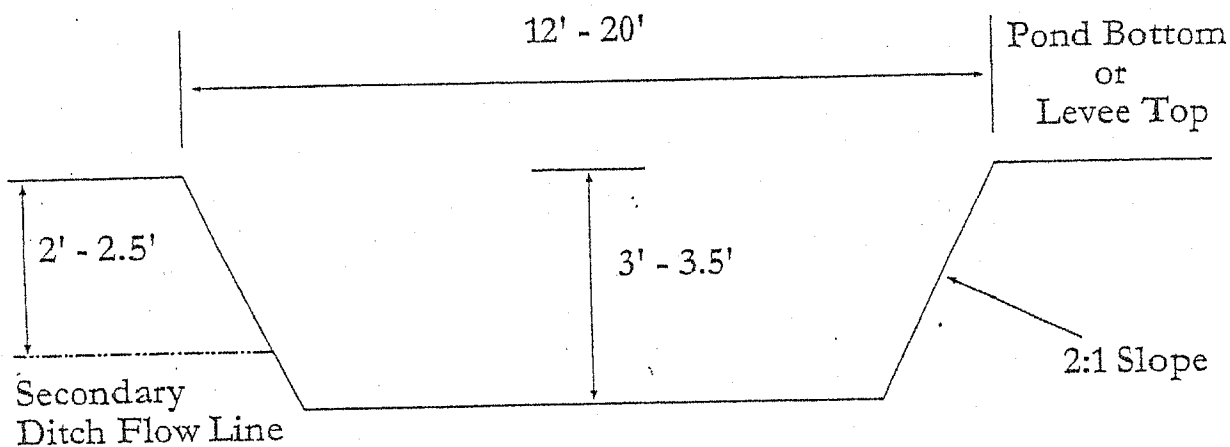
COUNTY OF: SOLANO STATE: CA

APPLICATION BY: 1) SUISUN RESOURCE  
CONSERVATION DISTRICT

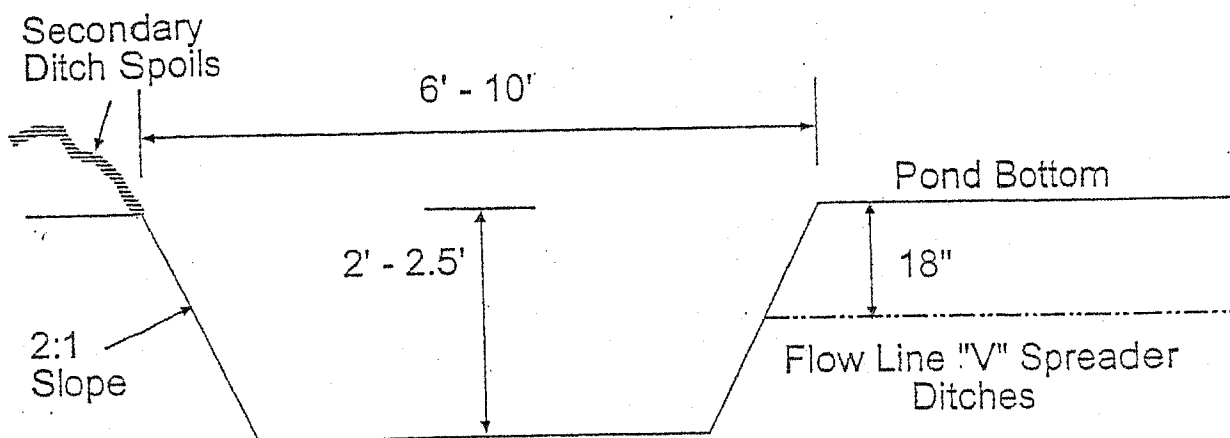
2) CA. DEPT. FISH & GAME

SHEET OF DATE 5/18/99

## Cross Section of Primary Ditch



## Cross Section of Secondary Ditch



Sheet 6 of 17

Department of the Army  
Regional General Permit  
Number 3 for Activities  
in the Suisun Marsh  
(DA File # 24215N)

PURPOSE: CONDUCTING ANNUAL WETLANDS  
MAINTENANCE ACTIVITIES TO PROTECT  
AND ENHANCE SUISUN MARSH  
MANAGED WETLANDS.

DATUM: MLLW

PROPERTY OWNERS:

1. Suisun Resource Conservation District Private Landowners
2. California Department of Fish & Game

### TYPICAL CROSS SECTIONS

No Scale

SUISUN RESOURCE CONSERVATION DISTRICT  
2544 GRIZZLY ISLAND RD.  
SUISUN, CA 94585

CALIFORNIA DEPARTMENT OF FISH & GAME  
2548 GRIZZLY ISLAND RD.  
SUISUN, CA 94585

IN: SUISUN MARSH NEAR FAIRFIELD

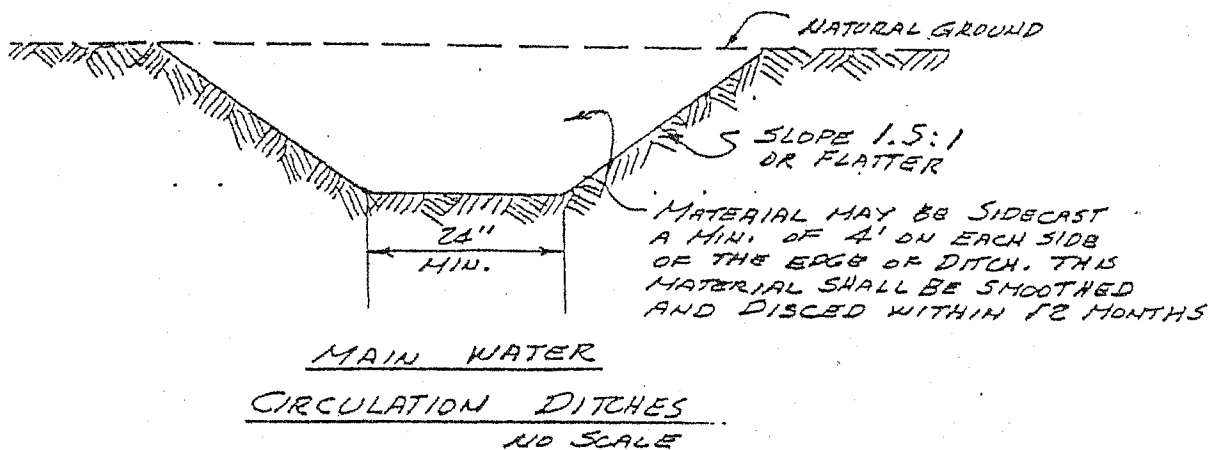
AT: INDIVIDUALLY OWNED STATE AND PRIVATE  
PROPERTIES

COUNTY OF: SOLANO STATE: CA

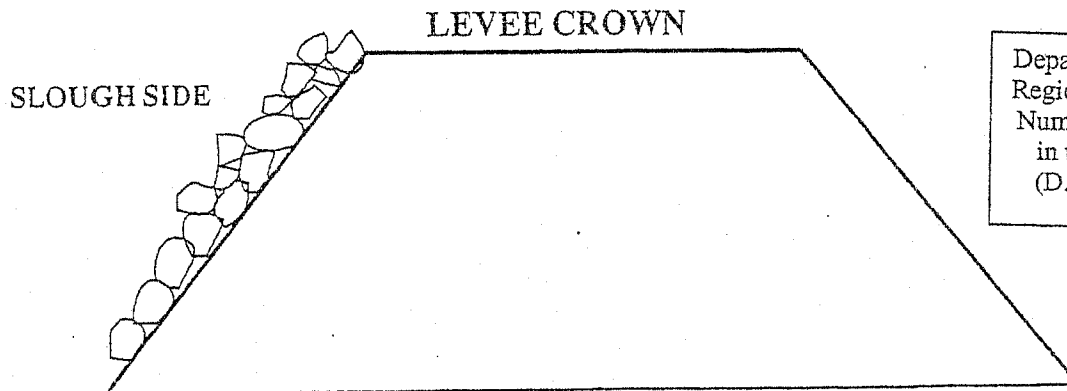
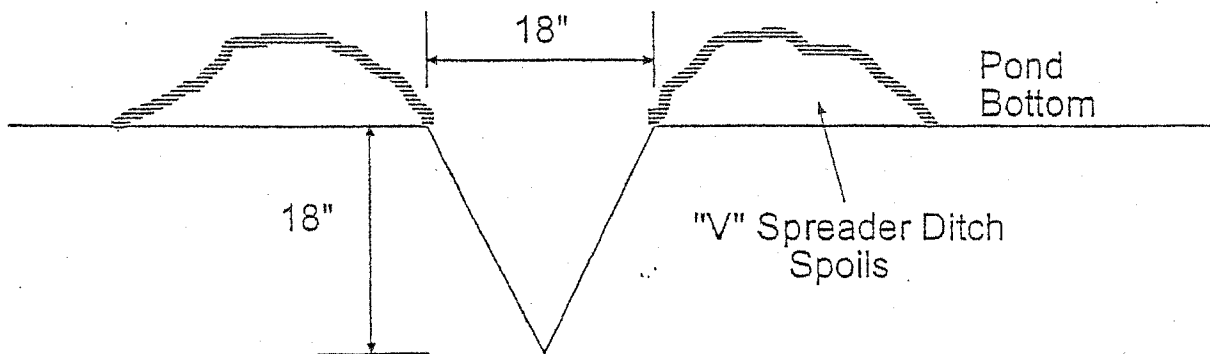
APPLICATION BY: 1) SUISUN RESOURCE  
CONSERVATION DISTRICT

2) CA. DEPT. FISH & GAME

SHEET OF DATE 5/18/99



## Cross Section "V" Spreader Ditch

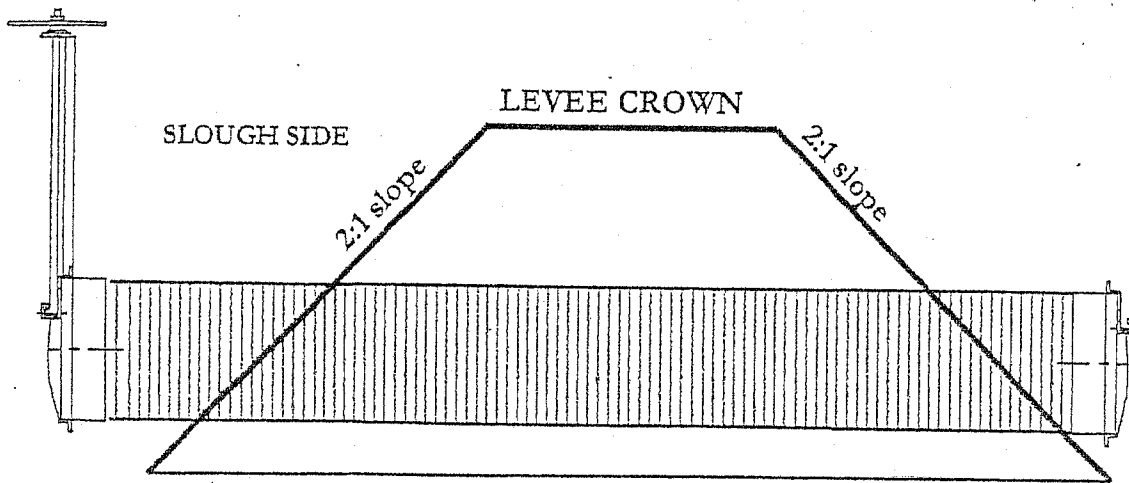


Department of the Army  
Regional General Permit  
Number 3 for Activities  
in the Suisun Marsh  
(DA File # 24215N)

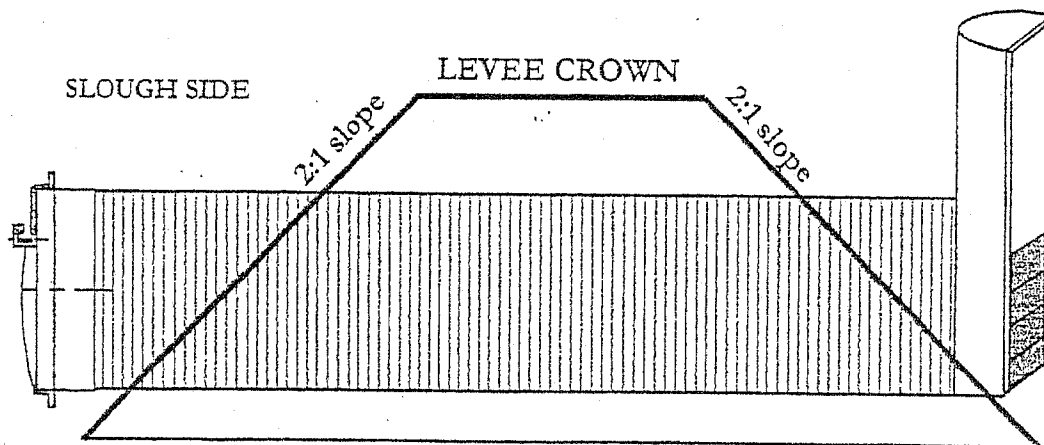
Sheet 7 of 17

## Typical Levee Section For the Replacement of Rip-Rap

<p>PURPOSE: CONDUCTING ANNUAL WETLANDS MAINTENANCE ACTIVITIES TO PROTECT AND ENHANCE SUISUN MARSH MANAGED WETLANDS.</p> <p>DATUM: MLLW</p> <p>PROPERTY OWNERS:</p> <ol style="list-style-type: none"> <li>1. Suisun Resource Conservation District Private Landowners</li> <li>2. California Department of Fish &amp; Game</li> </ol>	<p>TYPICAL CROSS SECTIONS</p> <p>No Scale</p> <p>SUISUN RESOURCE CONSERVATION DISTRICT 2544 GRIZZLY ISLAND RD. SUISUN, CA 94585</p> <p>CALIFORNIA DEPARTMENT OF FISH &amp; GAME 2548 GRIZZLY ISLAND RD. SUISUN, CA 94585</p>	<p>IN: SUISUN MARSH NEAR FAIRFIELD</p> <p>AT: INDIVIDUALLY OWNED STATE AND PRIVATE PROPERTIES</p> <p>COUNTY OF: SOLANO STATE: CA</p> <p>APPLICATION BY: 1) SUISUN RESOURCE CONSERVATION DISTRICT 2) CA. DEPT. FISH &amp; GAME</p> <p>SHEET OF DATE 5/18/99</p>
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Typical Levee Section For a Flood Gate



Typical Levee Section For a Drain Gate

Sheet 8 of 17

Department of the Army  
Regional General Permit  
Number 3 for Activities  
in the Suisun Marsh  
(DA File # 24215N)

PURPOSE: CONDUCTING ANNUAL WETLANDS  
MAINTENANCE ACTIVITIES TO PROTECT  
AND ENHANCE SUISUN MARSH  
MANAGED WETLANDS.

DATUM: MLLW

PROPERTY OWNERS:

1. Suisun Resource Conservation District Private  
Landowners
2. California Department of Fish & Game

### TYPICAL CROSS SECTIONS

No Scale

SUISUN RESOURCE CONSERVATION DISTRICT  
2544 GRIZZLY ISLAND RD.  
SUISUN, CA 94585

CALIFORNIA DEPARTMENT OF FISH & GAME  
2548 GRIZZLY ISLAND RD.  
SUISUN, CA 94585

IN: SUISUN MARSH NEAR FAIRFIELD

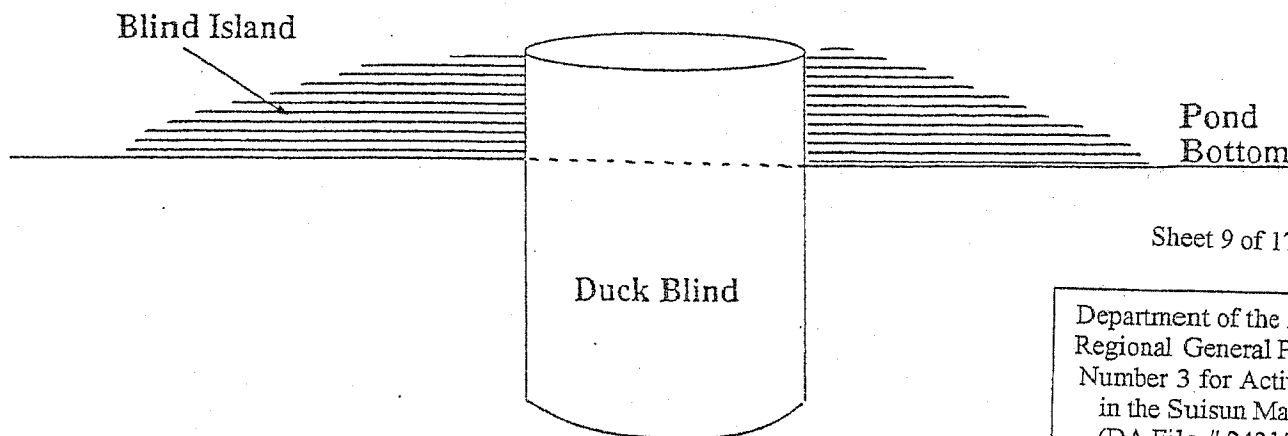
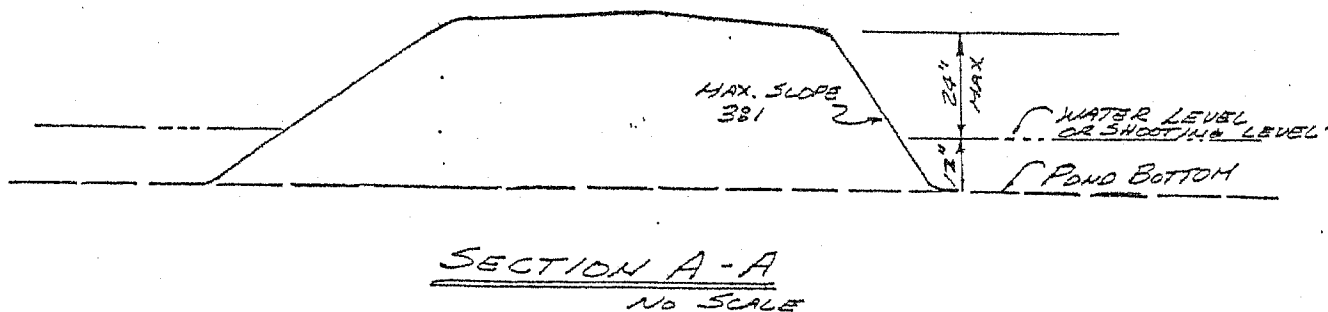
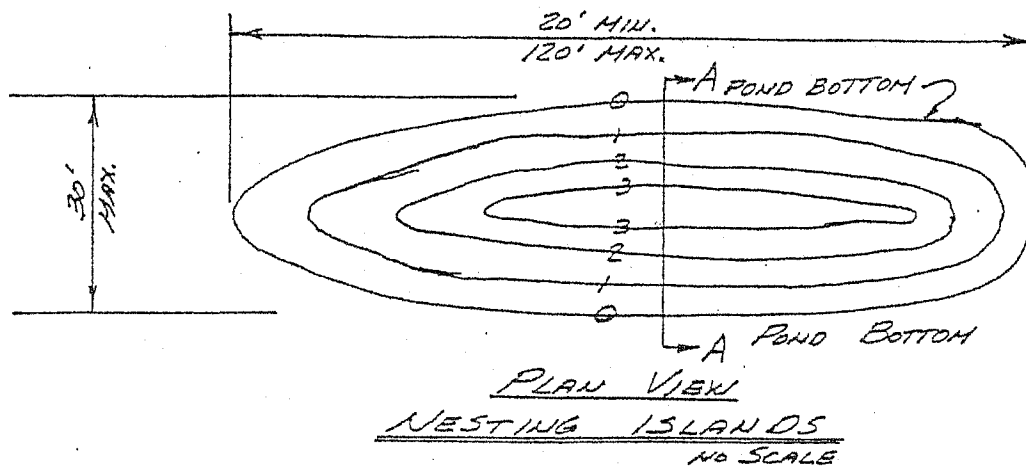
AT: INDIVIDUALLY OWNED STATE AND PRIVATE  
PROPERTIES

COUNTY OF: SOLANO STATE: CA

APPLICATION BY: 1) SUISUN RESOURCE  
CONSERVATION DISTRICT

2) CA. DEPT. FISH & GAME

SHEET OF DATE 5/18/99



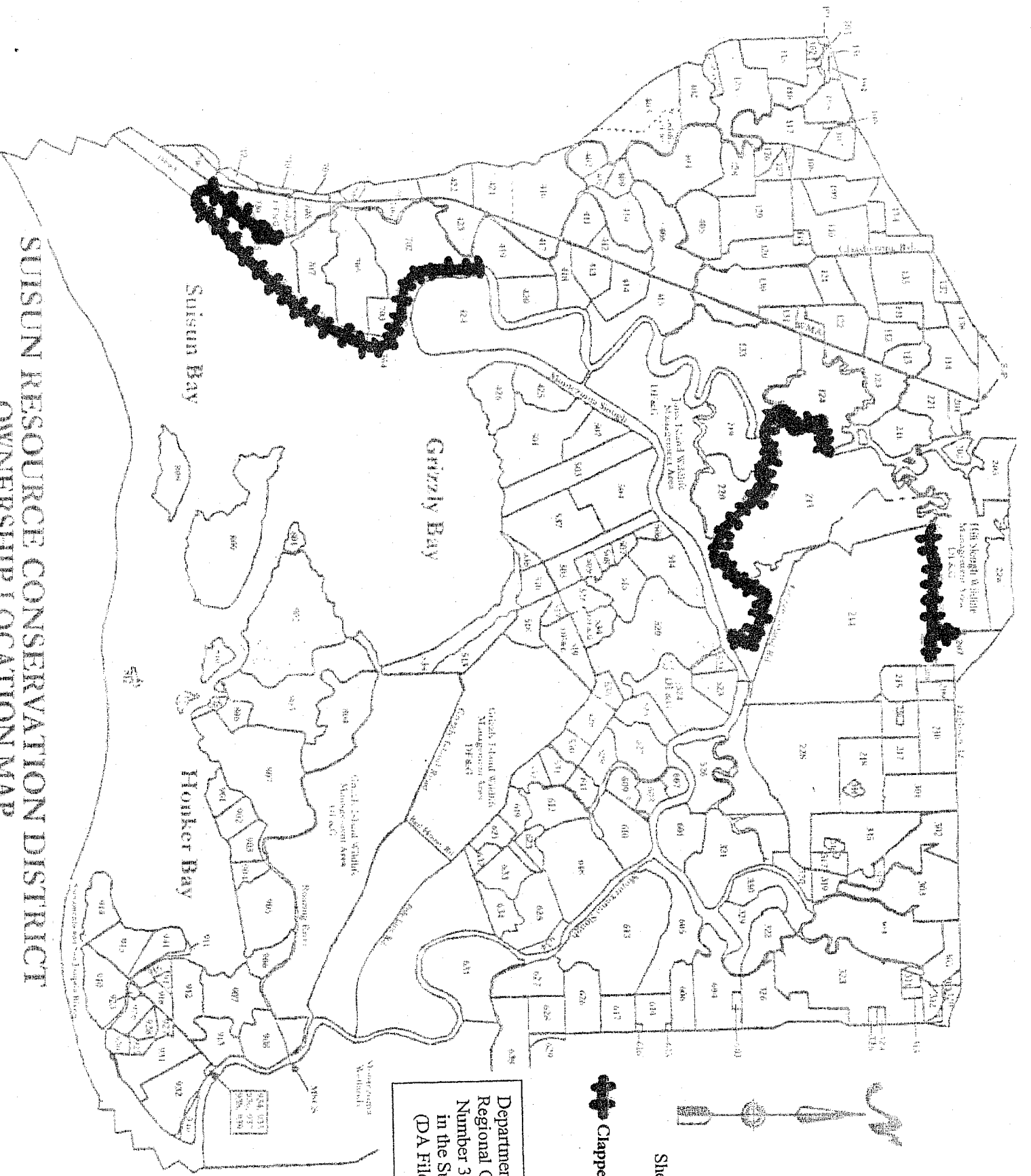
Sheet 9 of 17

Department of the Army  
Regional General Permit  
Number 3 for Activities  
in the Suisun Marsh  
(DA File # 24215N)


## Typical Duck Blind and Blind Island Cross Section

<p>PURPOSE: CONDUCTING ANNUAL WETLANDS MAINTENANCE ACTIVITIES TO PROTECT AND ENHANCE SUISUN MARSH MANAGED WETLANDS.</p> <p>DATUM: MLLW</p> <p>PROPERTY OWNERS:</p> <ol style="list-style-type: none"> <li>1. Suisun Resource Conservation District Private Landowners</li> <li>2. California Department of Fish &amp; Game</li> </ol>	<p>PLAN VIEW &amp; TYPICAL CROSS SECTIONS</p> <p>No Scale</p> <p>SUISUN RESOURCE CONSERVATION DISTRICT 2544 GRIZZLY ISLAND RD. SUISUN, CA 94585 CALIFORNIA DEPARTMENT OF FISH &amp; GAME 2548 GRIZZLY ISLAND RD. SUISUN, CA 94585</p>	<p>IN: SUISUN MARSH NEAR FAIRFIELD</p> <p>AT: INDIVIDUALLY OWNED STATE AND PRIVATE PROPERTIES</p> <p>COUNTY OF: SOLANO STATE: CA</p> <p>APPLICATION BY: 1) SUISUN RESOURCE CONSERVATION DISTRICT 2) CA. DEPT. FISH &amp; GAME</p> <p>SHEET OF DATE 5/18/99</p>
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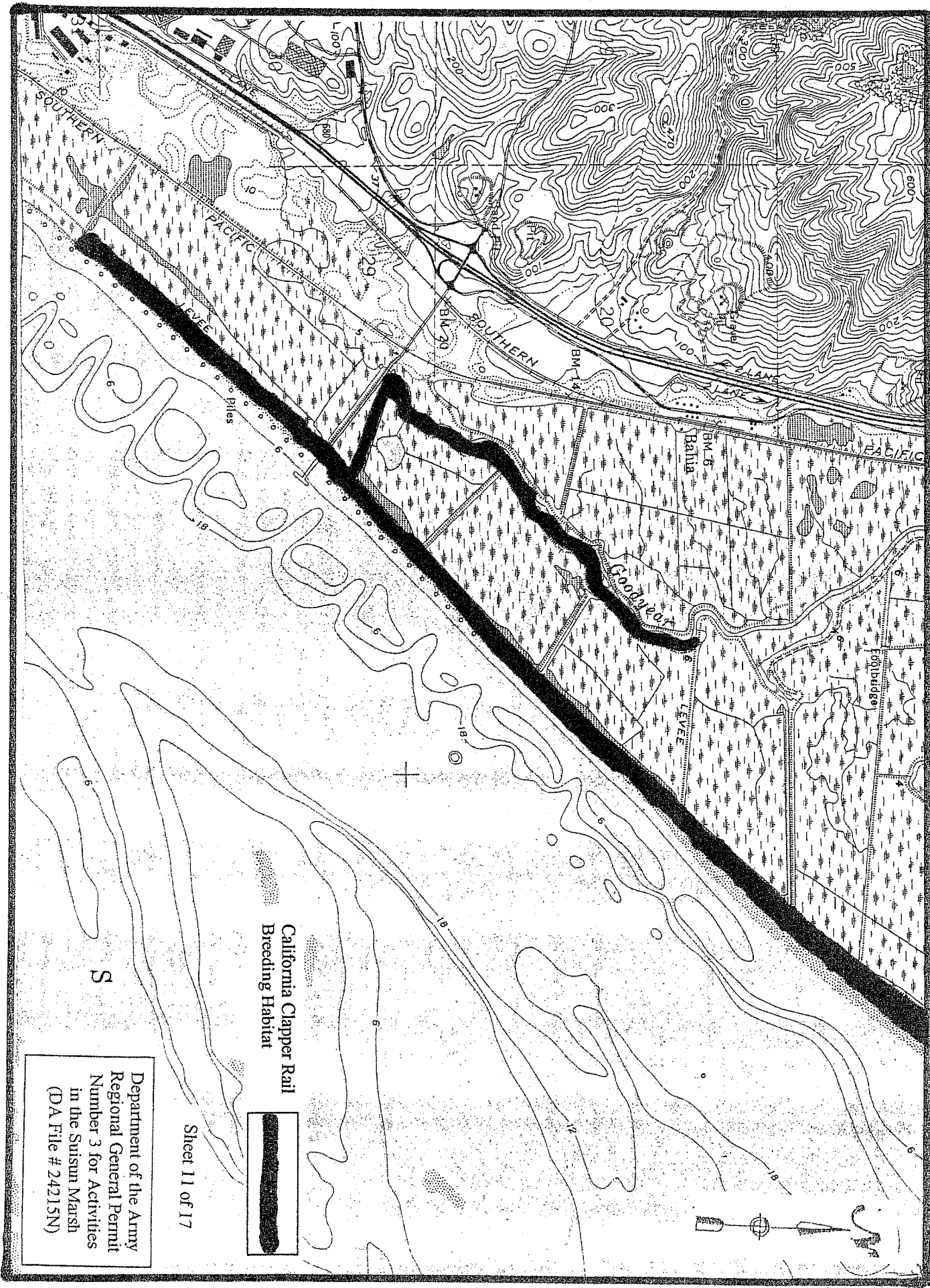
# SUISUN RESOURCE CONSERVATION DISTRICT OWNERSHIP LOCATION MAP



Department of the Army  
Regional General Permit  
Number 3 for Activities  
in the Suisun Marsh  
(DA File # 24215N)

 Clapper Rail Habitat



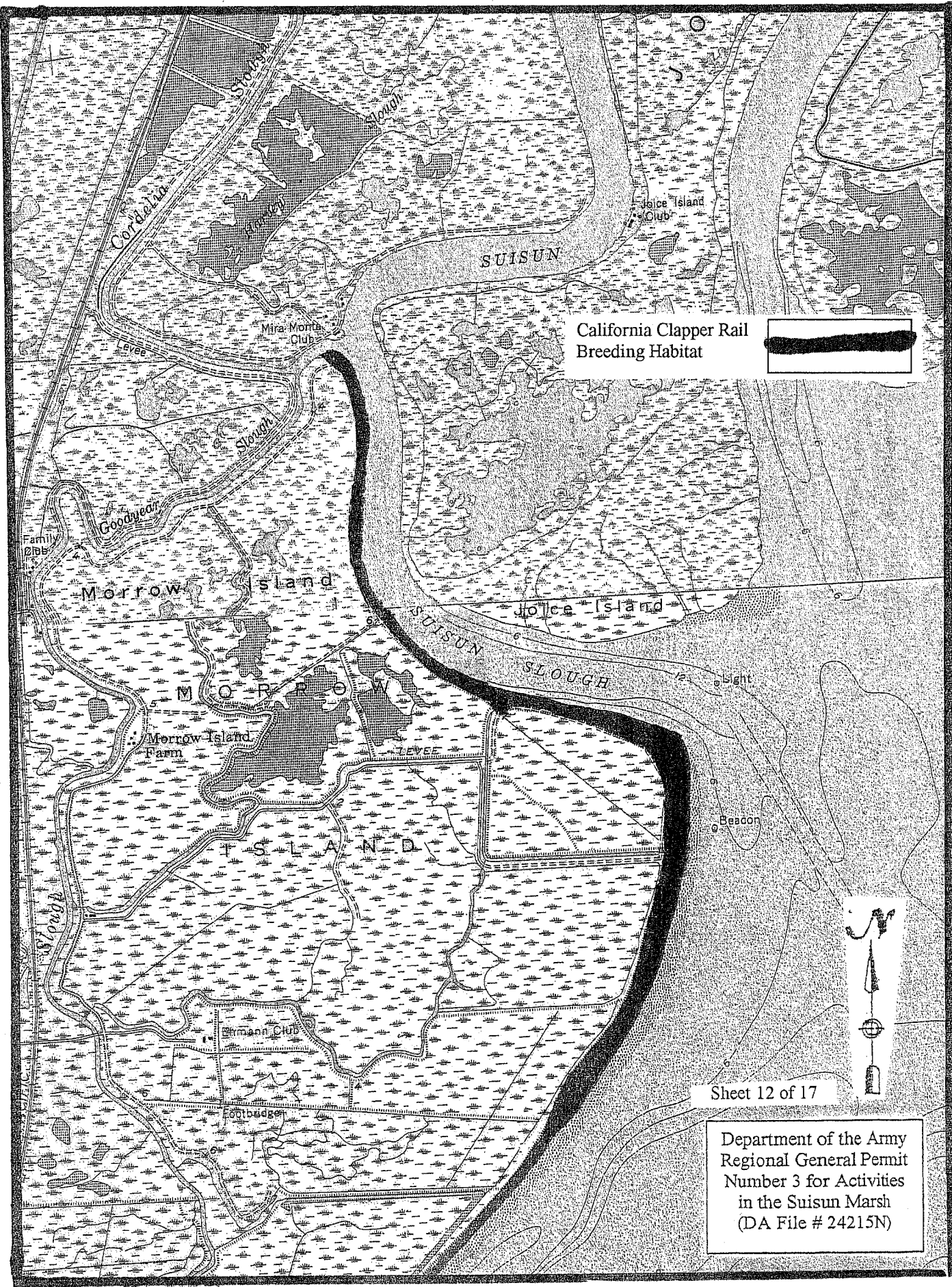


California Clapper Rail  
Breeding Habitat



Sheet 11 of 17

Department of the Army  
Regional General Permit  
Number 3 for Activities  
in the Suisun Marsh  
(DA File # 24215N)



California Clapper Rail  
Breeding Habitat

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Department of the Army  
Regional General Permit  
Number 3 for Activities  
in the Suisun Marsh  
(DA File # 24215N)

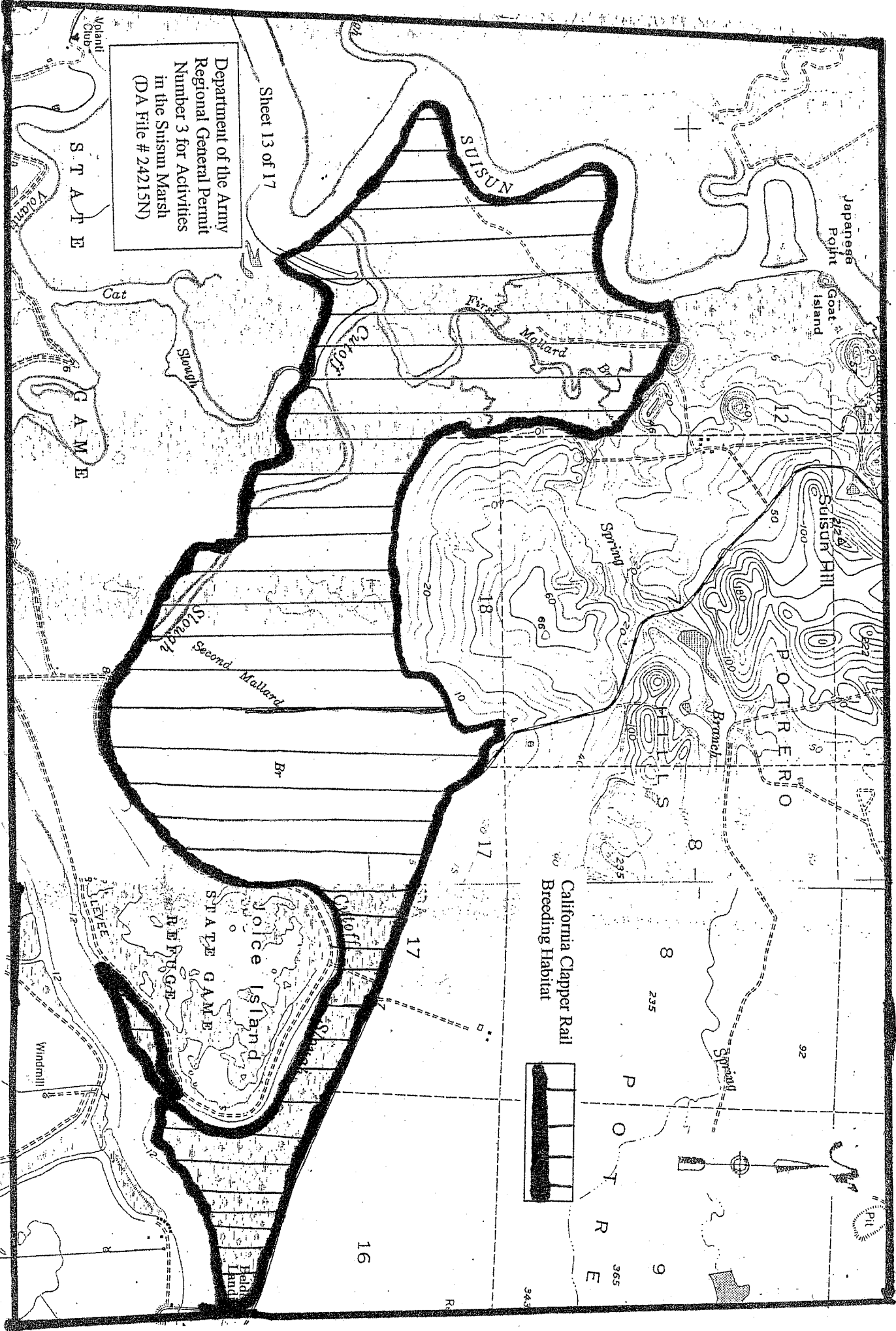
Department of the Army  
Regional General Permit  
Number 3 for Activities  
in the Suisun Marsh  
(DA File # 24215N)

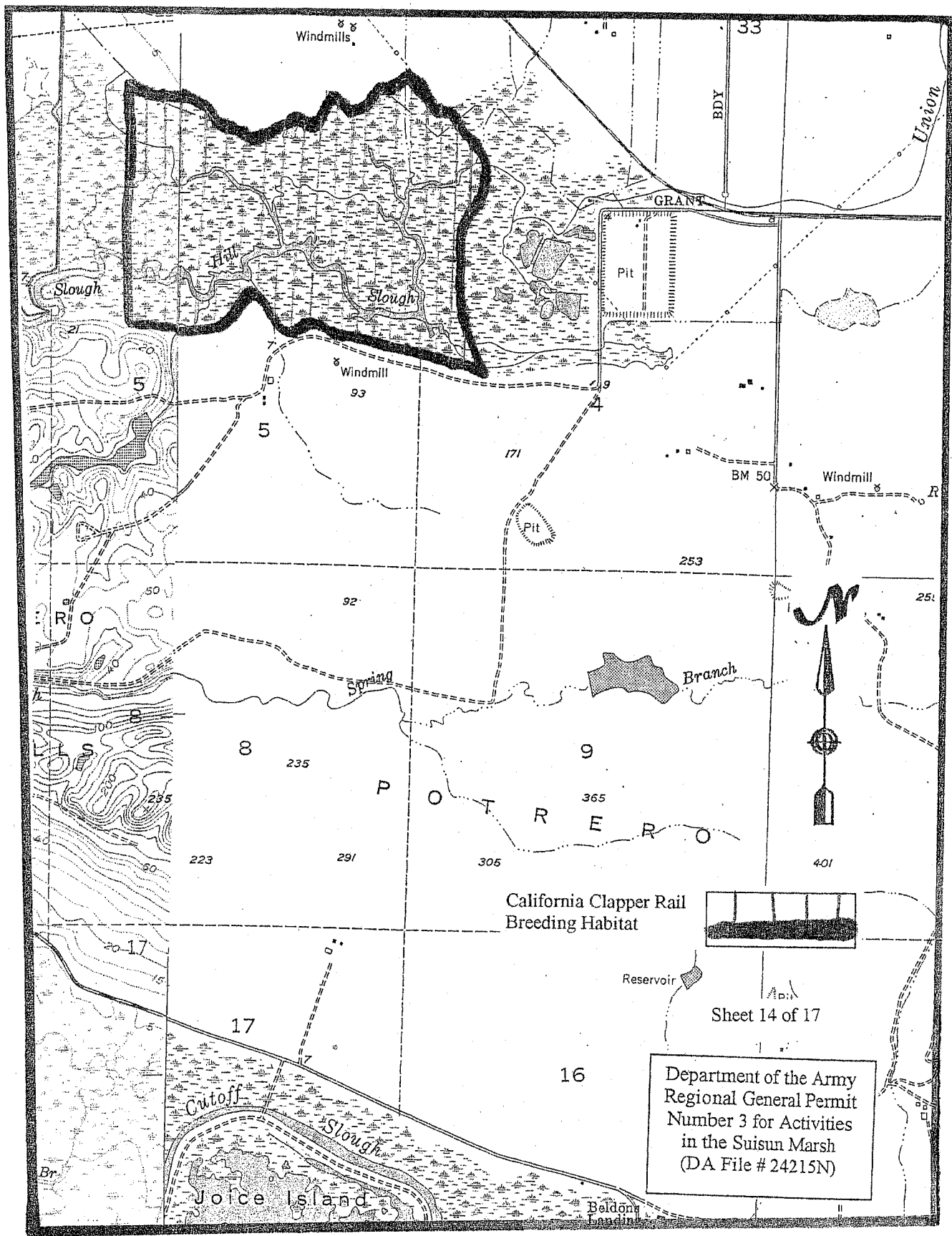
Sheet 13 of 17

ST A T E

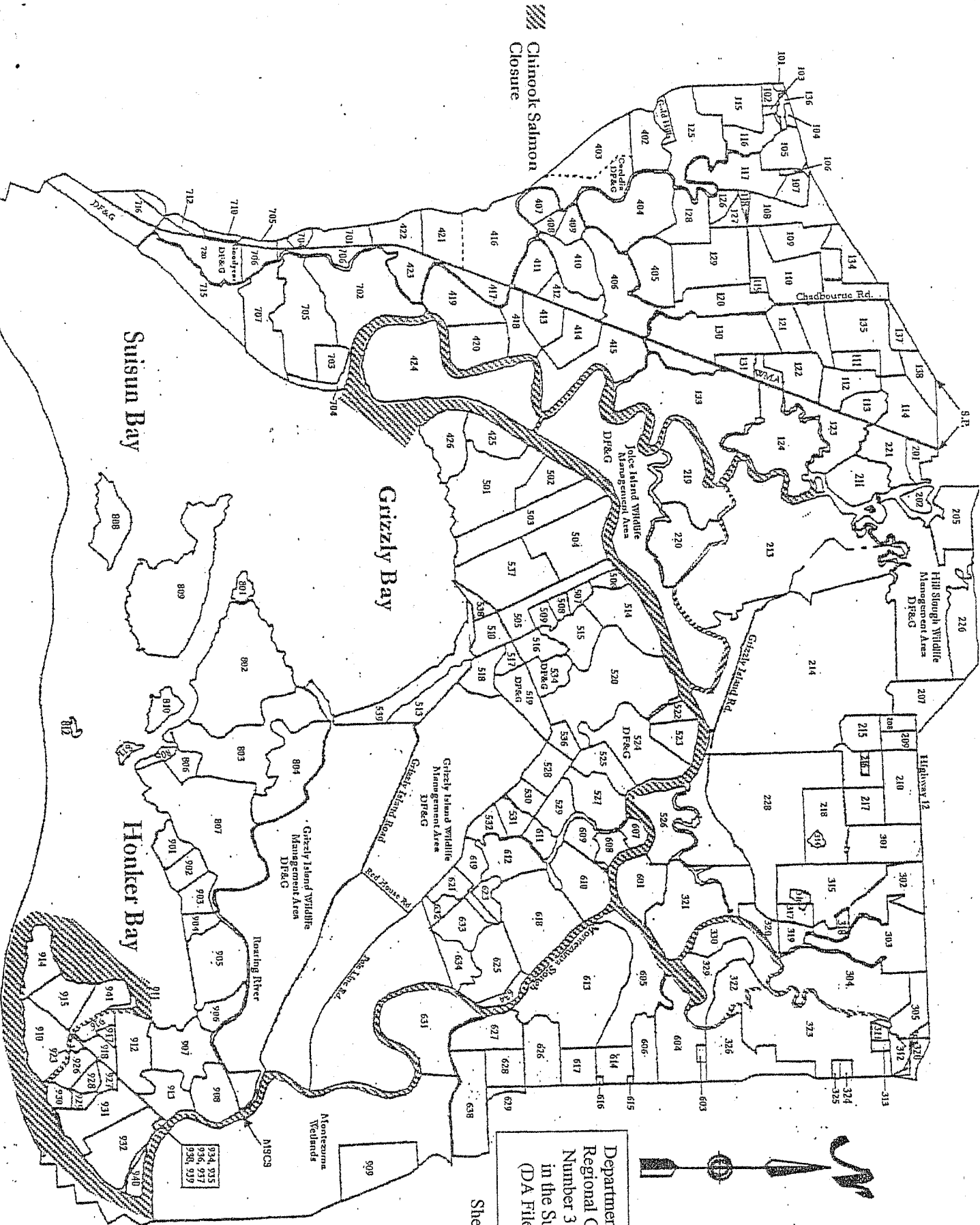
G A M E

California Clapper Rail  
Breeding Habitat



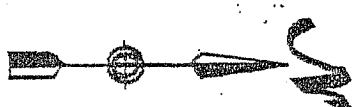


Chinook Salmon  
Closure




Sheet 15 of 17

Department of the Army  
Regional General Permit  
Number 3 for Activities  
in the Suisun Marsh  
(DA File # 24215N)

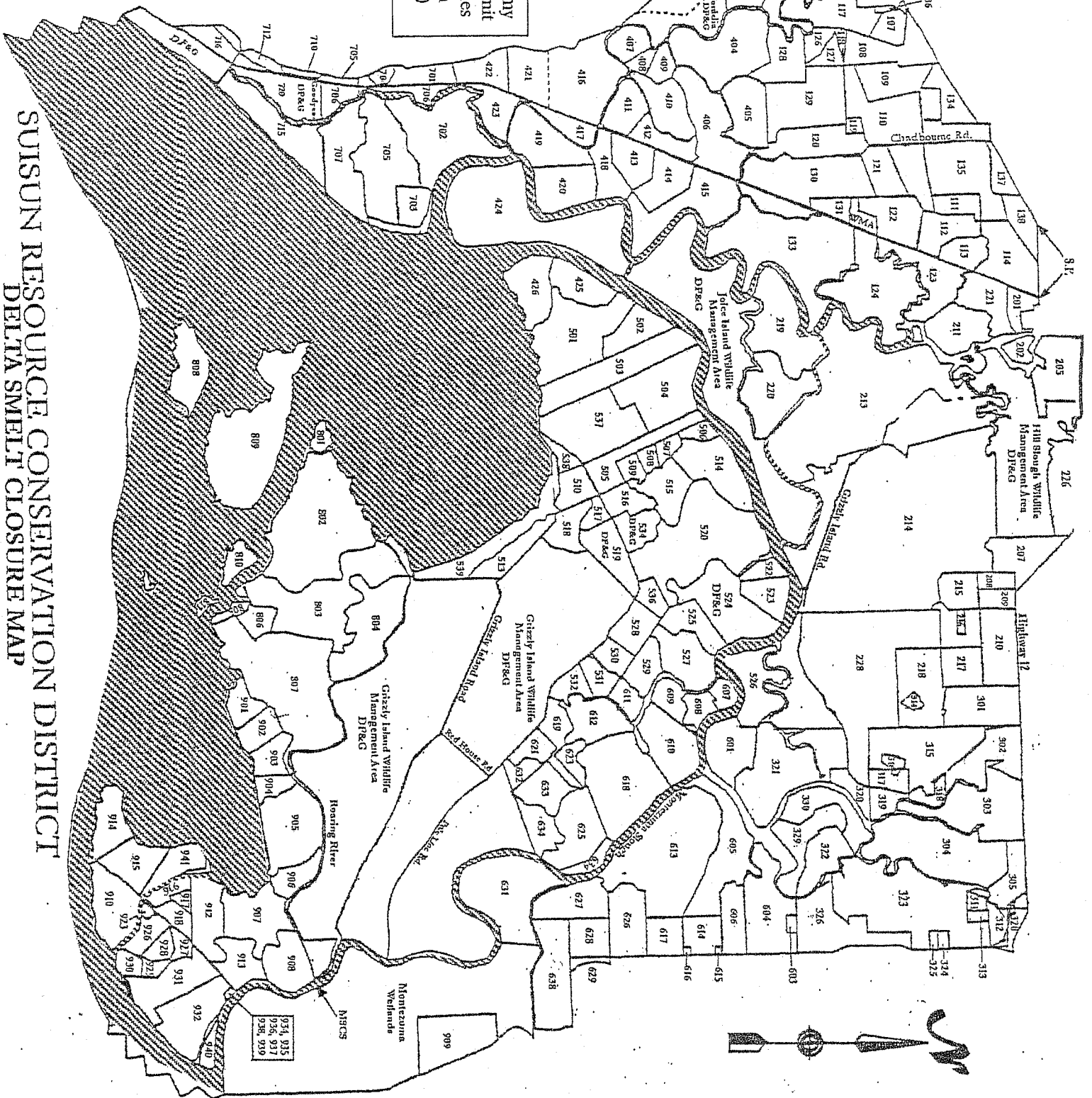




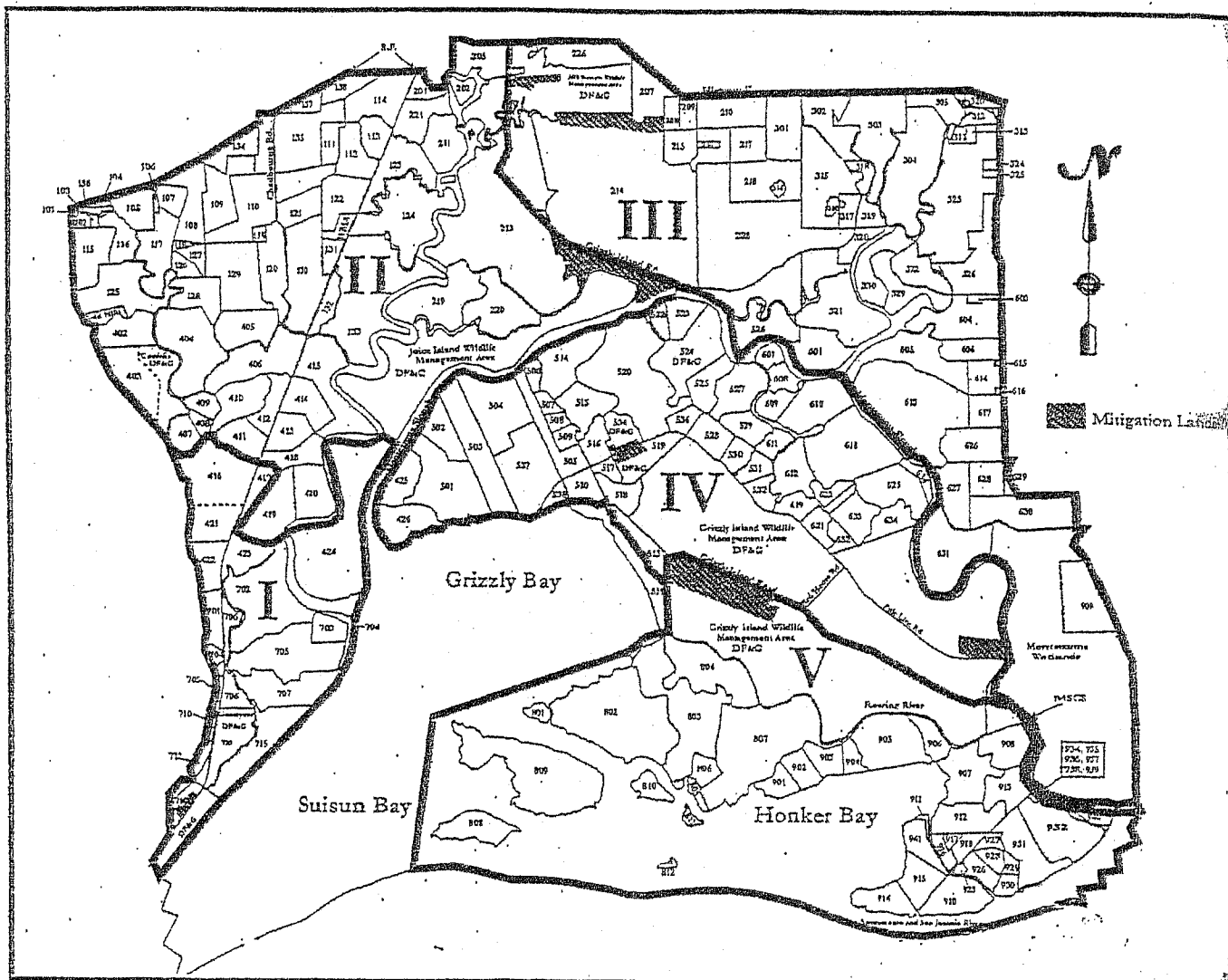
 Delta Smelt Closure

Sheet 16 of 17

Department of the Army  
Regional General Permit  
Number 3 for Activities  
in the Suisun Marsh  
(DA File # 24215N)



SUISUN RESOURCE CONSERVATION DISTRICT  
DELTA SMELT CLOSURE MAP



SALT MARSH HARVEST MOUSE MITIGATION AREAS

Sheet 17 of 17

Department of the Army  
Regional General Permit  
Number 3 for Activities  
in the Suisun Marsh  
(DA File # 24215N)

USACE WETLANDS MAINTENANCE APPLICATION 2000  
SRCD REGIONAL APPLICATION NO.24215N

Return to: Suisun Resource Conservation District  
2544 Grizzly Island Road  
Suisun, CA 94585  
(707) 425-9302 or e-mail to: [srcd@castles.com](mailto:srcd@castles.com)

CLUB NAME \_\_\_\_\_

OWNERSHIP NUMBER \_\_\_\_\_

OWNER \_\_\_\_\_

MANAGER \_\_\_\_\_

ACRES OF PRIMARY MANAGEMENT AREA IN OWNERSHIP \_\_\_\_\_

NOTE: You must submit a map of your property showing work locations (differentiate work locations using corresponding numbers in far left column of application, not X's or any other markings). Please fill in all applicable blanks on application grid.

Example: How to calculate acreage -

500 feet X 500 feet = 250,000 square feet / 43,560 square feet per acre = 5.74 acres  
1,000 feet X 1,000 feet = 1,000,000 square feet / 43,560 square feet per acre = 22.95 acres

Example: How to calculate cubic yardage for grading -

Assume you are grading 2.5 acres to a depth of 6 inches (0.5 feet)  
2.5 acres X 43,560 square feet per acre = 108,900 square feet X 0.5 feet = 54,450 square feet / 27 cubic feet per cubic yard = 2,016.6 cubic yards

Assume you are grading 2.5 acres to a depth of 12 inches (1.0 feet)  
2.5 acres X 43,560 square feet per acre = 108,900 square feet X 1.0 feet = 108,900 square feet / 27 cubic feet per cubic yard = 4,033.3 cubic yards

Plug your numbers into the underlined portion of the formulas below and enter the result into the appropriate box in the application grid.

To calculate acreage: length of area X width of area = square feet of area / 43,560 square feet per acre = acreage

To calculate cubic yardage: acreage X 43,560 square feet per acre = total square feet X depth of grade = cubic feet / 27 cubic feet per cubic yard = cubic yards



USACE WETLANDS MAINTENANCE APPLICATION 2000  
REQUEST FOR MAINTENANCE AMENDMENT

Return to: Suisun Resource Conservation District  
2544 Grizzly Island Road  
Suisun, CA 94585  
(707) 425-9302 or e-mail to: [srcd@castles.com](mailto:srcd@castles.com)

CLUB NAME \_\_\_\_\_

OWNERSHIP NUMBER \_\_\_\_\_

OWNER \_\_\_\_\_

MANAGER \_\_\_\_\_

ACRES OF PRIMARY MANAGEMENT AREA IN OWNERSHIP \_\_\_\_\_

Please give details of requested maintenance amendment to original application.  
Attach map showing exact location of requested maintenance amendment.

Type of work: \_\_\_\_\_

No. of units: \_\_\_\_\_

Size or acreage: \_\_\_\_\_

Proposed linear feet: \_\_\_\_\_

Proposed cubic yards: \_\_\_\_\_

Proposed work start: \_\_\_\_\_

*Make photocopy of this page for each amendment requested.*

\_\_\_\_\_  
Name and title of person requesting amendment (please print)

\_\_\_\_\_  
Signature of person requesting amendment

\_\_\_\_\_  
Date

Club name:

USACE WETLANDS MAINTENANCE APPLICATION 2000

Ownership number:

	TYPE OF WORK	# OF UNITS	SIZE OR ACREAGE	PROPOSED LINEAR FEET	PROPOSED CUBIC YARDS	PROPOSED WORK START	ACTUAL LINEAR FEET	ACTUAL CUBIC YARDS	ADDITIONAL COMMENTS
1	CLEARING EXISTING INTERIOR DITCHES	X	X						what was done with the material removed?
2	CONSTRUCT NEW INTERIOR DITCHES	X	X						what was done with the material removed?
3	REPAIR INTERIOR EXISTING LEVEES	X	X						material source and type?
4	REPAIR EXTERIOR EXISTING LEVEES	X	X						material source and type?
5	REPLACE PREVIOUSLY EXISTING RIP-RAP ON EXTERIOR LEVEE	X	X						this area must have previously existing rip rap
6	CORING OF EXISTING LEVEES	X	X						indicate location on enclosed map
7	EXISTING ROAD MAINT., ADDING SURFACE MATERIAL, AND GRADING	X	X						material source and type?
8	GRADING POND BOTTOMS FOR WATER CIRCULATION	X		X			X		what was done with the material removed?
9	POND BOTTOM SPREADER V DITCHES	X			X			X	indicate location on enclosed map

USACE WETLANDS MAINTENANCE APPLICATION 2000  
AUTHORIZATION REQUEST FOR  
URGENT OR UNFORESEEN MAINTENANCE ACTIVITY

Return by fax ASAP to: USACE, Attn: Debra O'Leary 415-977-8343 (ph. no. 415-977-8442) and SRCD, Attn: Steven Chappell (707) 425-4402 (ph. no. 707-425-9302)

CLUB NAME \_\_\_\_\_

OWNERSHIP NUMBER \_\_\_\_\_

OWNER \_\_\_\_\_

MANAGER \_\_\_\_\_

ACRES OF PRIMARY MANAGEMENT AREA IN OWNERSHIP \_\_\_\_\_

Please give details of requested for urgent or unforeseen maintenance activity.  
Attach map showing exact location of requested maintenance activity.

Describe urgent maintenance requested: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

No. of units: \_\_\_\_\_

Size or acreage: \_\_\_\_\_

Proposed linear feet: \_\_\_\_\_

Proposed cubic yards: \_\_\_\_\_

Proposed work start: \_\_\_\_\_

*Make photocopy of this page for each maintenance request.*

\_\_\_\_\_  
Name, title, phone number, and e-mail address of person requesting approval of urgent or unforeseen maintenance activity (please print)

\_\_\_\_\_  
Signature of person requesting approval

\_\_\_\_\_  
Date

Club name:

## USACE WETLANDS MAINTENANCE APPLICATION 2000

Ownership number:

	TYPE OF WORK	# OF UNITS	SIZE	PROPOSED LINEAR, FEET	PROPOSED CUBIC YARDS	PROPOSED WORK START	ACTUAL LINEAR FEET	ACTUAL CUBIC YARDS	ADDITIONAL COMMENTS
10	REPAIR EXISTING EXTERIOR FLOOD GATES AND CULVERTS			X	X		X	X	indicate location on enclosed map
11	PIPE REPLACEMENT FOR EXISTING FLOOD GATE				X			X	indicate location on enclosed map
12	REPAIR EXISTING EXTERIOR DRAIN GATES AND CULVERTS			X	X		X	X	This area must have previously existing rip-rap
13	PIPE REPLACEMENT FOR EXISTING DRAIN GATE				X			X	indicate location on enclosed map
14	INSTALLATION OF A NEW EXTERIOR DRAIN GATE			X	X		X	X	state size, type, and location on map?
15	INSTALL, REPAIR, OR RE-INSTALL WATER CONTROL BULKHEADS				X			X	state size, type, and location on map?
16	REPAIR EXISTING INTERIOR WATER CONTROL STRUCTURES			X	X		X	X	state size, type, and location on map?
17	INSTALLATION OF NEW INTERIOR WATER CONTROL STRUCTURES			X	X		X	X	state size, type, and location on map?

Club name:

USACE WETLANDS MAINTENANCE APPLICATION 2000

Ownership number:

	TYPE OF WORK	# OF UNITS	SIZE OR ACREAGE	PROPOSED LINEAR FEET	PROPOSED CUBIC YARDS	PROPOSED WORK START	ACTUAL LINEAR FEET	ACTUAL CUBIC YARDS	ADDITIONAL COMMENTS
18	INSTALL NEW OR RELOCATE / REPLACE EXISTING BLINDS			X	X		X	X	state size, type, and location on map?
19	DISCING	X		X	X		X	X	state size, type, and location on map?
20	INSTALLATION OF DRAIN PUMP AND PLATFORMS			X	X		X	X	state size, type, and location on map?